ANAL	YST:		VPDES NO			
Parameter: Total Residual Chlorine Method: Titrimetric, Iodometric, or Amperometric Back (Iodine Titrant) 04/01 METHOD OF ANALYSIS:						
18th EDITION OF STANDARD METHODS-4500-CL C						
	EPA METHODS FOR CHEMICAL ANALYSIS-330.2					
		METHODS FOR GITEMICAL ANALTSIG-550.2			Υ	N
1)	Ις ΡΔι	O or thiosulfate normality 0.00564N? [SM-3.c; 330.2-5.1]			ı	N
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2)	If thiosulfate is used, is it standardized daily? [SM-3.c]				_	
3)	If thiosulfate is used, is it standardized correctly? [SM-3.c]					
4)	Is iodine titrate normality 0.0282N or, if not, is correction made? [SM-3.h; 330.2-5.4]					
5)	Is iodine standardized or checked against PAO daily? [SM-3.h; 330.2-5.4]					
6)	Is iodine standardized correctly? [SM-4.g; 330.2-5.12]					
7)	Is iodine stored in amber bottles or in the dark, protected from sunlight and contact with rubber? [SM-4.h; 330.2-5.4]					
8)	Is rea	gent standardization documented? [Permit]				
9)	Are reagents free of contamination or growths? [Permit]					
10)	Are reagents within their indicated shelf lives? [Permit]					
11)	Is 200 mL of sample used? [SM-4.a.1; 330.2-6.1.4]					
12)	Is 5 mL of PAO or thiosulfate used? [SM-4.a.2; 330.2-6.1.1]					
13)	Is KI added? [SM-4.b.3; 330.2-6.1.2]					
14)	ls 4 m	nL acetate buffer added? [SM-4.a.2; 330.2-6.1.3]				
15)	Is at le 6.1.6]	east 1 mL starch solution added? (disregard for Amperometr	ic titration) [SM-4	4.b.3; 330.2-		
16)	Is titrant added until the first appearance of blue color that persists after complete mixing (disregard for Amperometric titration)? [SM-4.b.3; 330.2-6.1.7]					
17)	Is titrant added until pointer deflects upscale and does not return to its original position (Amperometric titration)? [SM-4.b.1; 330.2-6.2.3]					
18)	Is fina	al volume of titration recorded? [SM-4.b.1; 330.2-6.1.7; Permit]			
19)	Is the	sample value calculated correctly? [SM-5; 330.2-7] TRC (mg/L) = $(A - 5B) \times 200$				
		A = mL 0.00564N reductant B = mL 0.0282N I_2 C = mL sample				

PROBLEMS: